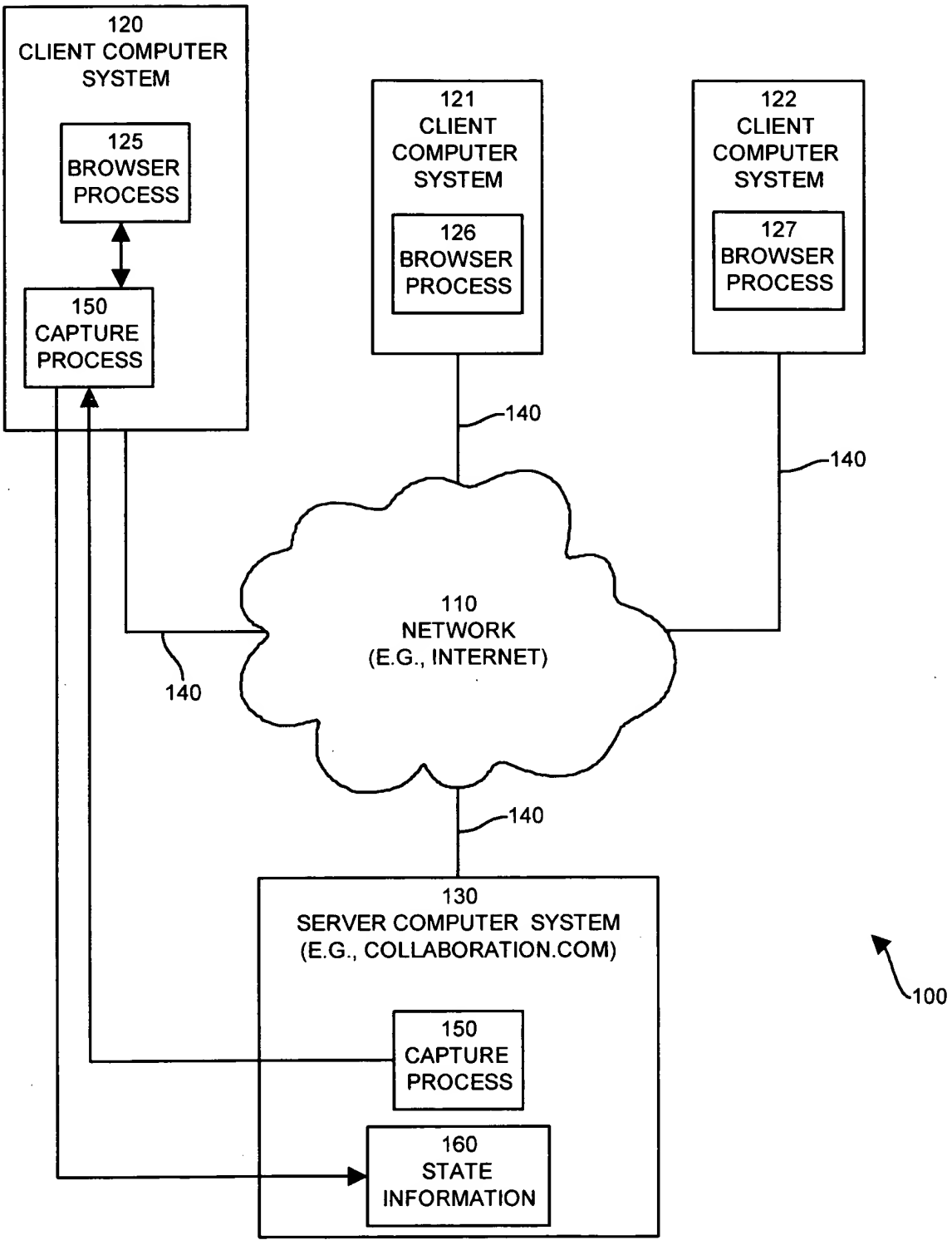

120
CLIENT COMPUTER SYSTEM
125
BROWSER PROCESS
150
CAPTURE PROCESS
121
CLIENT COMPUTER SYSTEM
126
BROWSER PROCESS
122
CLIENT COMPUTER SYSTEM
127
BROWSER PROCESS
140
140
140
140
110
NETWORK
(E.G., INTERNET)
130
SERVER COMPUTER SYSTEM
(E.G., COLLABORATION.COM)
150
CAPTURE PROCESS
160
STATE INFORMATION
100

FIG. 1

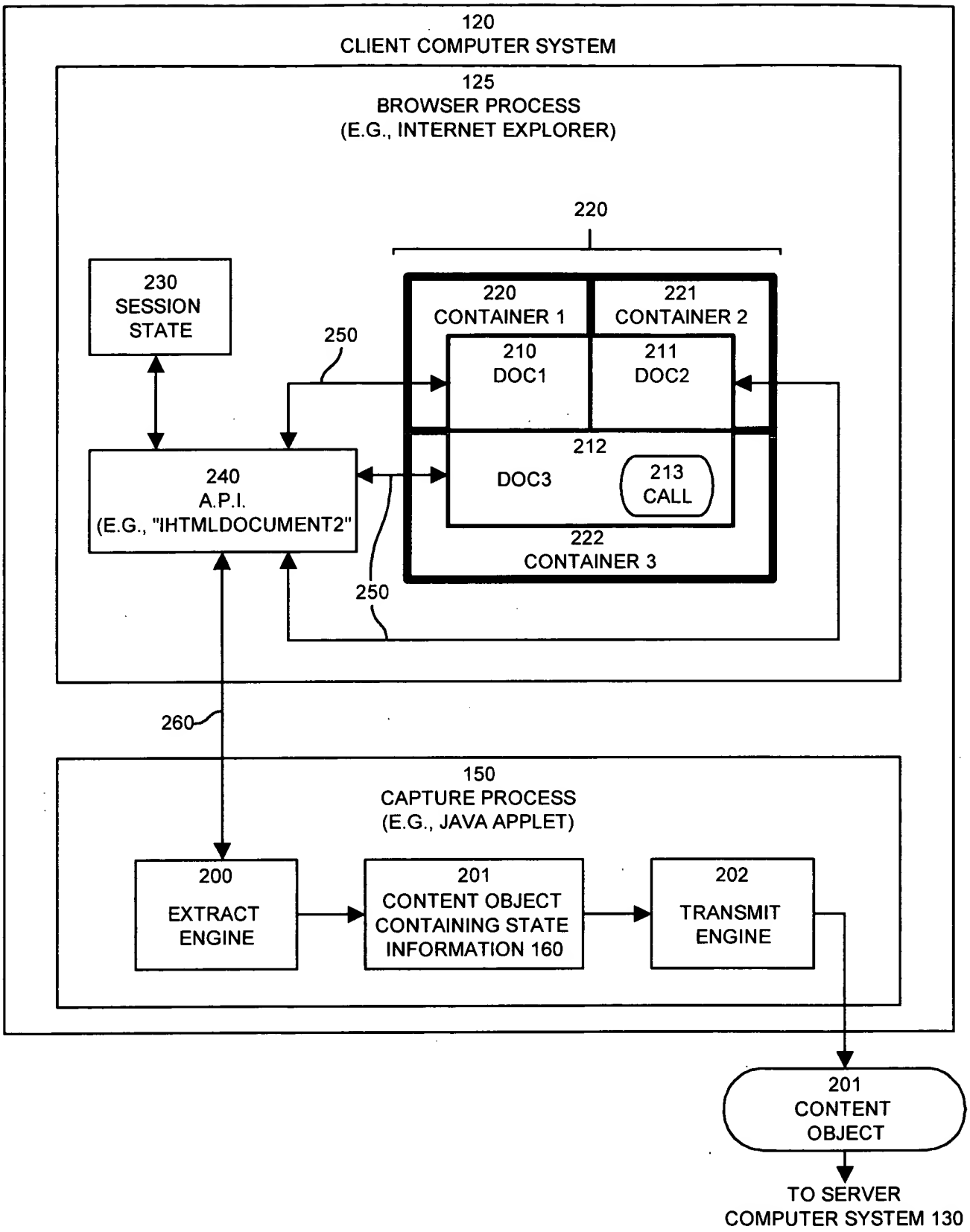
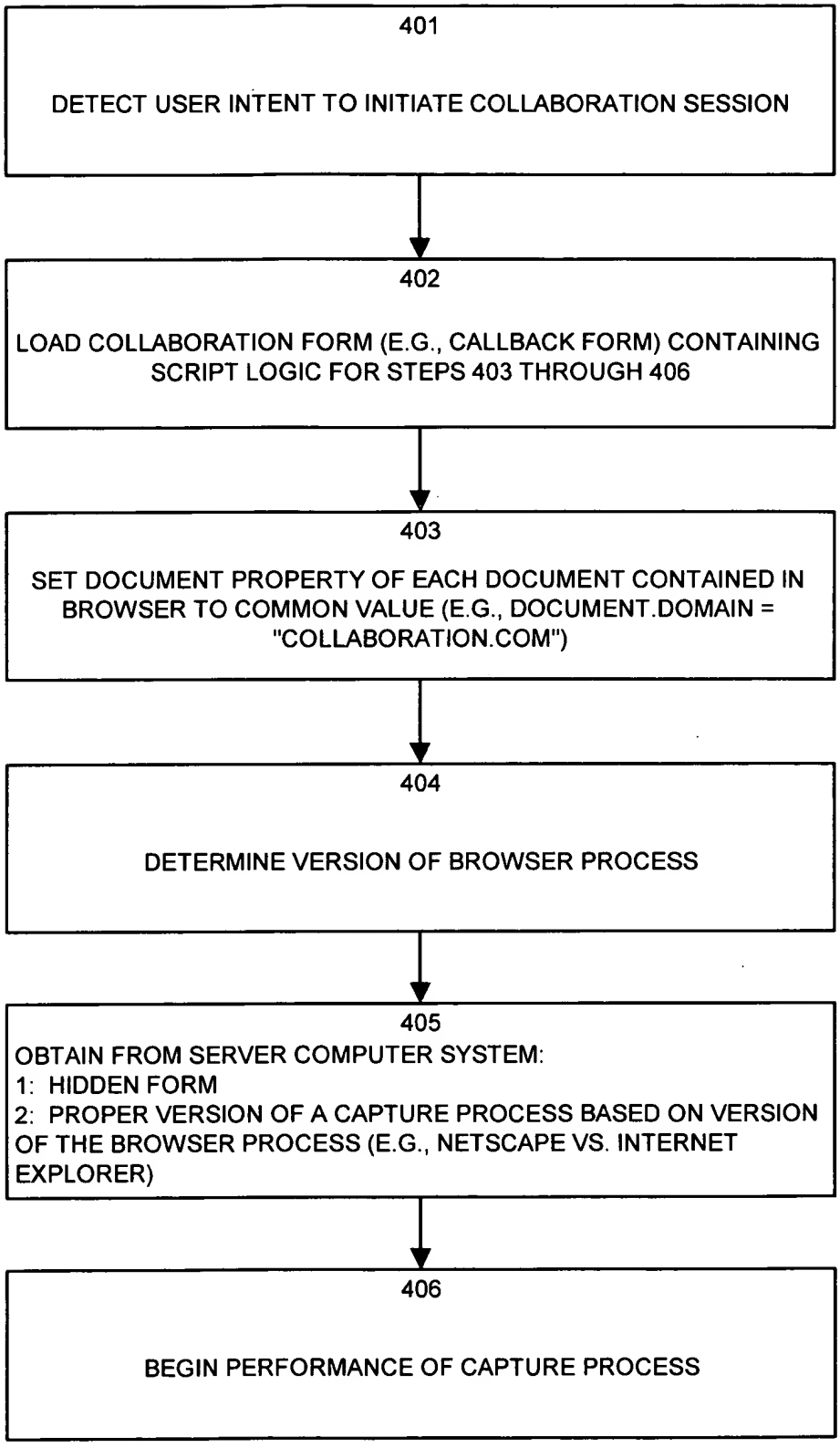

120
CLIENT COMPUTER SYSTEM
125
BROWSER PROCESS
(E.G., INTERNET EXPLORER)
220
230
SESSION
STATE
220
CONTAINER 1
221
CONTAINER 2
250
210
DOC1
211
DOC2
212
240
A.P.I.
(E.G., "IHTMLDOCUMENT2"
DOC3
213
CALL
222
CONTAINER 3
250
260
150
CAPTURE PROCESS
(E.G., JAVA APPLET)
200
EXTRACT
ENGINE
201
CONTENT OBJECT
CONTAINING STATE
INFORMATION 160
202
TRANSMIT
ENGINE
201
CONTENT
OBJECT
TO SERVER
COMPUTER SYSTEM 130

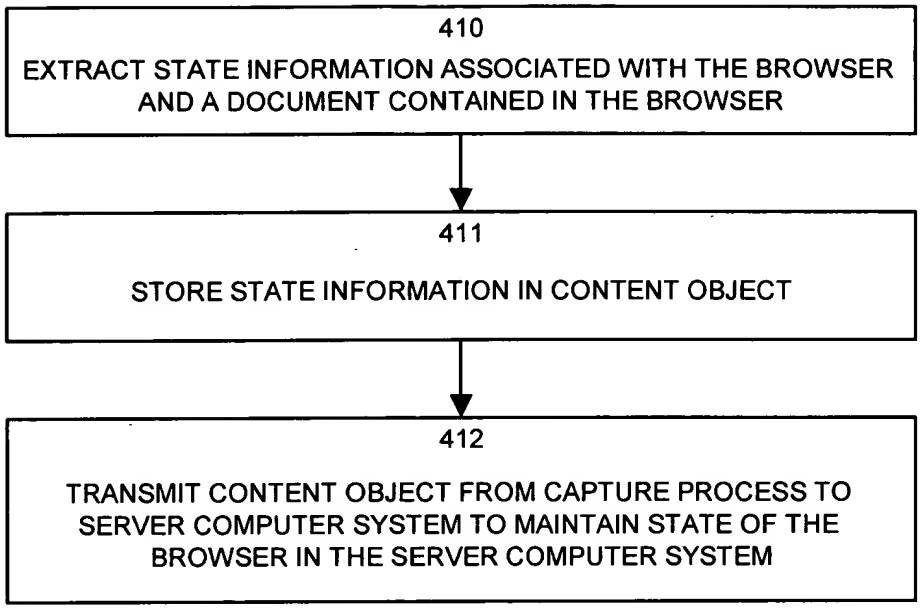
FIG. 2



BROWSER OPERATION

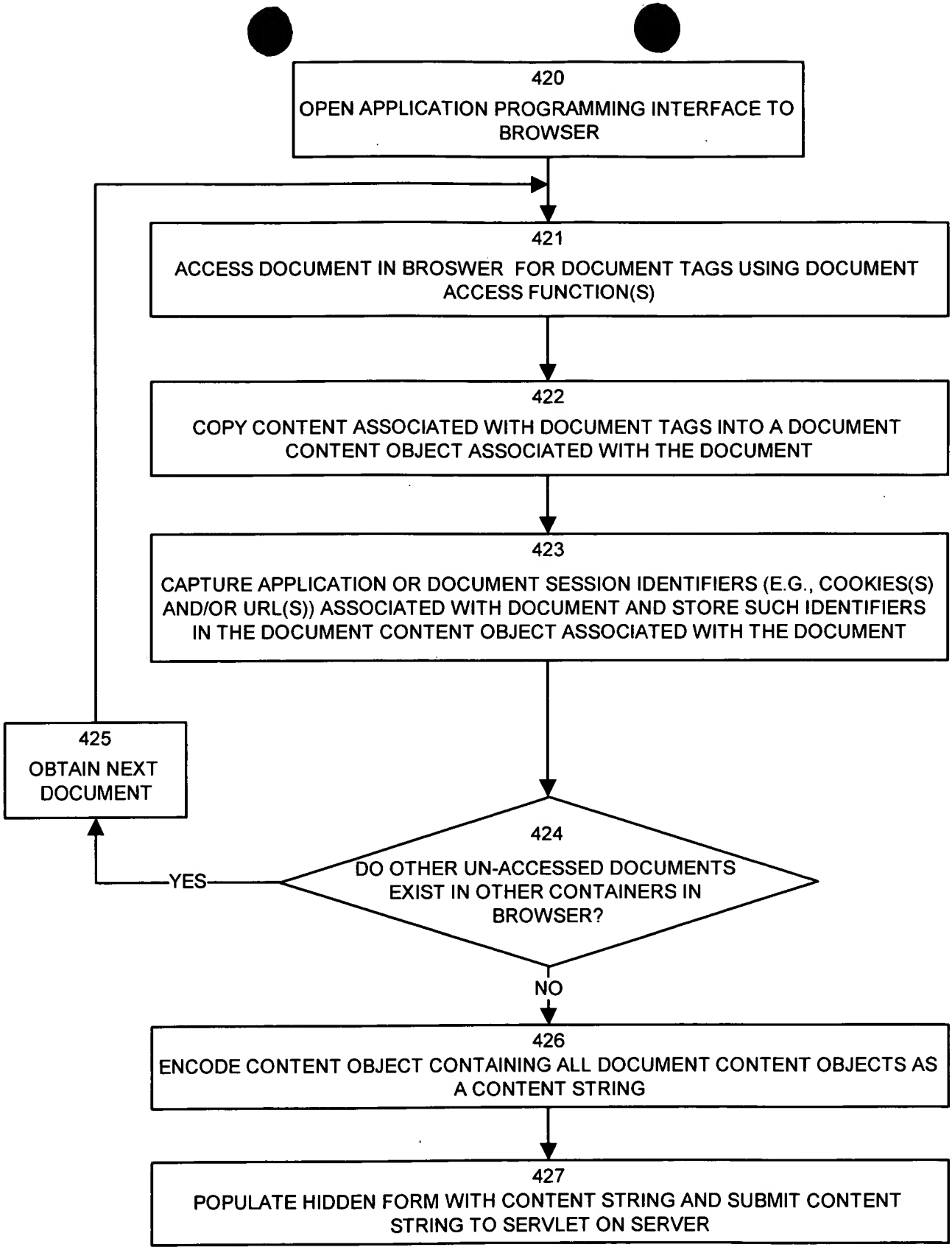
FIG. 3

Doc Id: US 6,604,140 B1



GENERAL CAPTURE PROCESS OPERATION

FIG. 4



DETAILED CAPTURE PROCESS OPERATION

FIG. 5

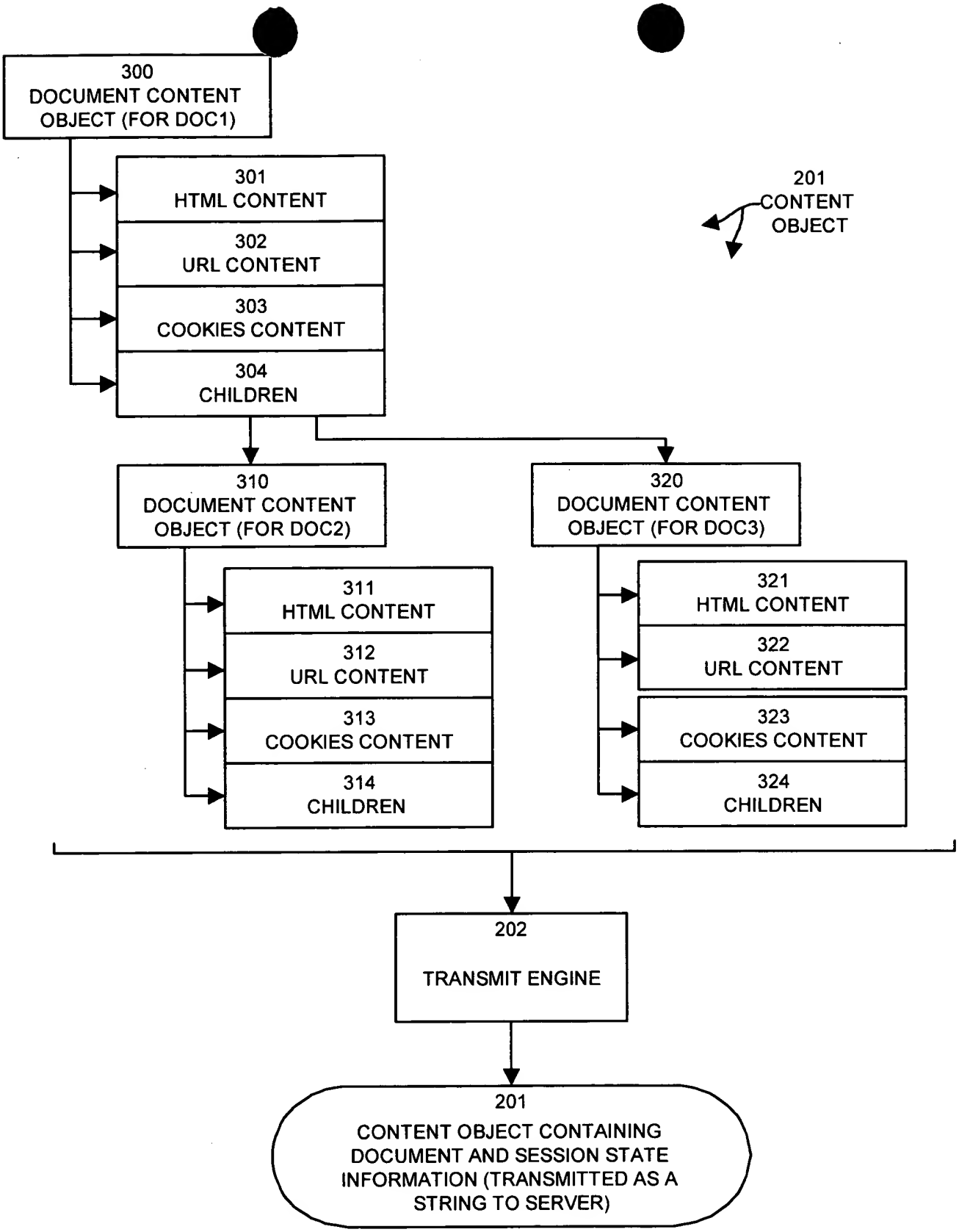

300
DOCUMENT CONTENT OBJECT (FOR DOC1)
301
HTML CONTENT
302
URL CONTENT
303
COOKIES CONTENT
304
CHILDREN
201
CONTENT OBJECT
310
DOCUMENT CONTENT OBJECT (FOR DOC2)
320
DOCUMENT CONTENT OBJECT (FOR DOC3)
311
HTML CONTENT
312
URL CONTENT
313
COOKIES CONTENT
314
CHILDREN
321
HTML CONTENT
322
URL CONTENT
323
COOKIES CONTENT
324
CHILDREN
202
TRANSMIT ENGINE
201
CONTENT OBJECT CONTAINING DOCUMENT AND SESSION STATE INFORMATION (TRANSMITTED AS A STRING TO SERVER)

FIG. 6

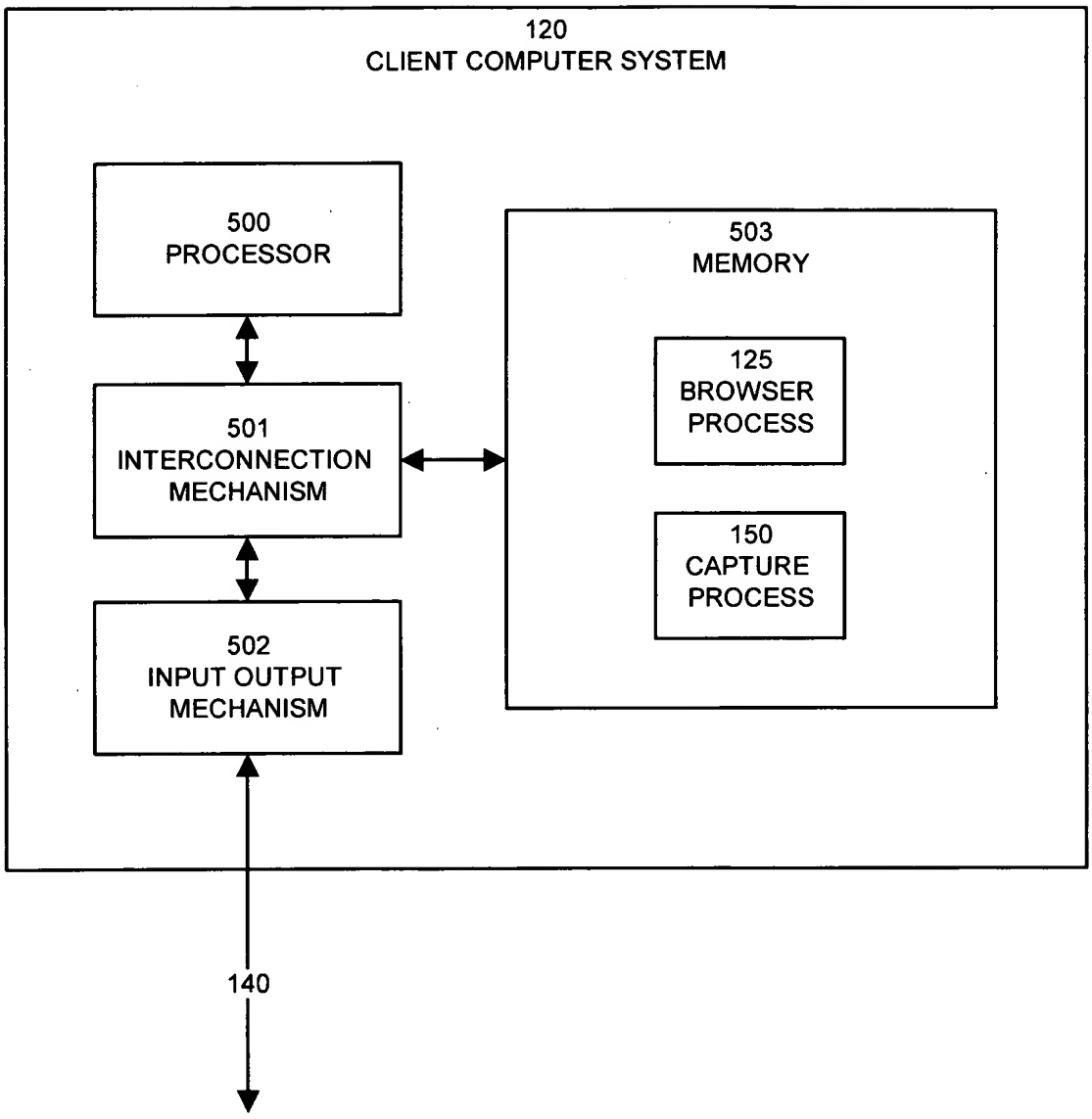

120
CLIENT COMPUTER SYSTEM
500
PROCESSOR
503
MEMORY
125
BROWSER
PROCESS
501
INTERCONNECTION
MECHANISM
150
CAPTURE
PROCESS
502
INPUT OUTPUT
MECHANISM
140

FIG. 7